



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/735461-Conf. #3119
Filing Date	December 11, 2003
First Named Inventor	Michael P. CZECH
Art Unit	1635
Examiner Name	J. B. Ashern
Attorney Docket Number	UMY-055

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RS	A1*	US-5,958,773	09-28-1999	Monia et al.	
	A2*	US-20030084471-A1	05-01-2003	Beach et al.	
	A3*	US-20030157514-A1	08-21-2003	Finger et al.	
RS	A4*	US-20030228597-A1	12-11-2003	Cowsert et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RS	C1	Glasspool-Malone, Jill, et al., "Efficient Nonviral Cutaneous Transfection," <i>Molecular Therapy</i> , Vol. 2(2):140-146 (2000)	
RS	C2	Spiller, David G., et al., "Improving the Intracellular Delivery and Molecular Efficacy of Antisense Oligonucleotides in Chronic Myeloid Leukemia Cells: A Comparison of Streptolysin-O Permeabilization, Electroporation, and Lipophilic Conjugation," <i>Blood</i> , Vol. 91(12):4738-4746 (1998)	
RS	C3	Gehl, J., "Electroporation: theory and methods, perspectives for drug delivery, gene therapy adn research," <i>Acta Physiol Scand</i> , Vol. 177:437-447 (2003)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	6/8/06
--------------------	--	-----------------	--------



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number	UMY-055
-------	---	----	---	------------------------	---------

Complete if Known

Application Number	10/735461-Conf. #3119
Filing Date	December 11, 2003
First Named Inventor	Michael P. CZECH
Art Unit	1635
Examiner Name	J.B. Ashen

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
K	C1	Alessi, Dario, et al., "3-Phosphoinositide-dependent protein kinase-1 (PDK1): structural and functional homology with the Drosophila DSTPK61 kinase," <i>Current Biology</i> , Vol. 7:776-789 (1997)	
	C2	Brazil, Derek P., et al., "Ten years of protein kinase B signalling: a hard Akt to follow," <i>Trends in Biochemical Sciences</i> , Vol. 26(11):657-664 (2001)	
	C3	Brummelkamp, Thijn R., et al., "A System for Stable Expression of Short Interfering RNAs in Mammalian Cells," <i>Science</i> , Vol. 296:550-553 (2002)	
	C4	Calegari, Federica, et al., "Tissue-specific RNA interference in postimplantation mouse embryos with endonuclease-prepared short interfering RNA," <i>PNAS</i> , Vol. 99(22):14236-14240 (2002)	
	C5	Calera, Monica R., et al., "Insulin Increases the Association of Akt-2 with Glut4-containing Vesicles," <i>The Journal of Biological Chemistry</i> , Vol. 273(13):7201-7204 (1998)	
	C6	Chiu, Ya-Lin, et al., "RNAi in Human Cells: Basic Structural and Functional Features of Small Interfering RNA," <i>Molecular Cell</i> , Vol. 10:549-561 (2002)	
	C7	Cho, Han, et al., "Akt1/PKB α Is Required for Normal Growth but dispensable for Maintenance of Glucose Homeostasis in Mice," <i>The Journal of Biological Chemistry</i> , Vol. 276(42):38349-38352 (2001)	
	C8	Cho, Han, et al., "Insulin Resistance and a Diabetes Mellitus-Like Syndrome in Mice Lacking the Protein Kinase Akt2 (PKB β)," <i>Science</i> , Vol. 292:1728-1731 (2001)	
	C9	Cohen, Philip, et al., "The renaissance of GSK3," <i>Molecular Cell Biology</i> , Vol. 2:769-776 (2001)	
	C10	Cross, Darren A.E., et al., "Inhibition of glycogen synthase kinase-3 by insulin mediated by protein kinase B," <i>Nature</i> , Vol. 378:785-789 (1995)	
	C11	Elbashir, Sayda M., et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> , Vol. 411:494-498 (2001)	
	C12	Harrison, Scott A., et al., "Insulin Regulation of Hexose Transport in Mouse 3T3-L1 Cells Expressing the Human HepG2 Glucose Transporter," <i>The Journal of Biological Chemistry</i> , Vol. 265(33):20106-20116 (1990)	
	C13	Hill, Michelle M., et al., "A Role for Protein Kinase B β /Akt2 in Insulin-Stimulated GLUT4 Translocation in Adipocytes," <i>Molecular and Cellular Biology</i> , Vol. 19(11):7771-7781 (1999)	
B	C14	Kohn, Aimee D., et al., "Expression of a Constitutively Active Akt Ser/Thr Kinase in 3T3-L1 Adipocytes Stimulates Glucose Uptake and Glucose Transporter 4 Translocation," <i>The Journal of Biological Chemistry</i> , Vol. 271(49):31372-31378 (1996)	

Examiner Signature		Date Considered	6/6/06
-----------------------	--	--------------------	--------

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/735461-Conf. #3119
				Filing Date	December 11, 2003
				First Named Inventor	Michael P. CZECH
				Art Unit	1635
				Examiner Name	J.B. Ashen
Sheet	2	of	2	Attorney Docket Number	UMY-055

	C15	Kotani, Ko, et al., "Requirement of Atypical Protein Kinase Cλ for Insulin Stimulation of Glucose Uptake but Not for Akt Activation in 3T3-L1 Adipocytes," <i>Molecular and Cellular Biology</i> , Vol. 18(12):6971-6982 (1998)	
	C16	Lee, Nan Sook, et al., "Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells," <i>nature biotechnology</i> , Vol. 19:500-505 (2002)	
	C17	Lewis, David L., "Efficient delivery of siRNA for inhibition of gene expression in postnatal mice," <i>nature genetics</i> , Vol. 32:107-108 (2002)	
	C18	McManus, Michael T., "Gene silencing using micro-RNA designed hairpins," <i>RNA</i> , Vol. 8:842-850 (2002)	
	C19	Miyagishi, Makoto, et al., "U6 promoter-driven siRNAs with four uridine 3' overhangs efficiently suppress targeted gene expression in mammalian cells," <i>nature biotechnology</i> , Vol. 19:497-500 (2002)	
	C20	Okabe, Masataka, et al., "Translational repression determines a neuronal potential in Drosophila asymmetric cell division," <i>Nature</i> , Vol. 411:94-98 (2001)	
	C21	Paddison, Patrick J., et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian cells," <i>Genes & Development</i> , Vol. 16:948-958 (2002)	
	C22	Paul, Cynthia P., et al., "Effective expression of small interfering RNA in human cells," <i>nature biotechnology</i> , Vol. 29:505-508 (2002)	
	C23	Scherr, Michaela, et al., "Gene Silencing Mediated by Small Interfering RNAs in Mammalian Cells," <i>Current Medicinal Chemistry</i> , Vol. 10:245-256 (2003)	
	C24	Sharp, Phillip A., "RNA interference - 2001," <i>Genes & Development</i> , Vol. 15:485-490 (2001)	
	C25	Spiller, David G., et al., "Improving the Intracellular Delivery and Molecular Efficacy of Antisense Oligonucleotides in Chronic Myeloid Leukemia Cells: A Comparison of Streptolysin-O Permeabilization, Electroporation, and Lipophilic Conjugation," <i>Blood</i> , Vol. 91(12):4738-4746 (1998)	
	C26	Sui, Guangchao, et al., "A DNA vector-based RNAi technology to suppress gene expression in mammalian cells," <i>PNAS</i> , Vol. 99(8):515-5520 (2002)	
	C27	Summers, Scott A., et al., "Differentiation-dependent Suppression of Platelet-derived Growth Factor Signaling in Cultured Adipocytes," <i>The Journal of Biological Chemistry</i> , Vol. 274(34):23858-23867 (1999)	
	C28	Tuschl, Thomas, "Expanding small RNA interference," <i>nature biotechnology</i> , Vol. 20:446-448 (2002)	
	C29	Ueki, Kohjiro, et al., "Potential Role of Protein Kinase B in Insulin-induced Glucose Transport, Glycogen Synthesis, and Protein Synthesis," <i>The Journal of Biological Chemistry</i> , Vol. 273(9):5315-5322 (1998)	
	C30	Wang, Qinghua, et al., "Protein Kinase B/Akt Participates in GLUT4 Translocation by Insulin in L6 Myoblasts," <i>Molecular and Cellular Biology</i> , Vol. 19(6):4008-4018 (1999)	
	C31	Williams, Michayla R., et al., "The role of 3-phosphoinositide-dependent protein kinase 1 in activating AGC kinases defined in embryonic stem cells," <i>Current Biology</i> , Vol. 10:439-448 (2000)	
	C32	Yu, Jenn-Yah, et al., "RNA interference by expression of short-interfering RNAs and hairpin RNAs in mammalian cells," <i>PNAS</i> , Vol. 99(9):6047-6052 (2002)	
	C33	Zeng, Yan, et al., "Both natural and Designated Micro RNAs Can Inhibit the Expression of Cognate mRNAs When Expressed in Human Cells," <i>Molecular Cell</i> , Vol. 9:1327-1333 (2002)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	6/8/06
--------------------	--	-----------------	--------